

## **IN THE CLAIMS**

2           Claims 1 - 10 (Cancelled)

11.       (Previously presented) A fixture shaped and configured to be screwed firmly  
2 into bone tissue, said fixture comprising:  
4           a generally cylindrical anchoring portion formed with an insertion end and having an  
6 external screw thread, a cavity which opens out at said insertion end, and a plurality of  
8 through-penetrating slots extending from said insertion end, wherein each said slot connects  
10 the cavity with the outside of said anchoring portion and wherein each said slot is defined by  
12 a leading slot wall surface facing each said slot and a trailing slot wall surface facing each  
14 said slot, where said leading and trailing wall surfaces relate to the direction of rotation  
defined by said screw thread when screwing in the fixture, such that said leading slot wall  
surface is the one that is ahead of each said slot and said trailing slot wall surface is behind  
each said slot in said direction of rotation, wherein at least the radially outermost part of said  
trailing slot wall surface defines a cutting edge at an angle  $\alpha$  with the radial direction and  
slopes obliquely forwardly from within and outwardly in said direction of rotation, whereby  
the cutting edge formed between said trailing slot wall surface and the outside of said  
anchoring portion define an acute angle.

12.       (Previously presented) The fixture according to claim 11, wherein the whole  
2 of the trailing slot wall surface defines the same angle  $\alpha$ .

13. (Previously presented) The fixture according to claim 12, wherein said  
2 leading slot wall surface also slopes obliquely forward from within and outward in said  
direction of rotation.

14 (Previously presented) The fixture according to claim 13, wherein said  
2 leading and trailing slot wall surfaces are parallel with one another.

15. (Cancelled)

16. (Previously presented) The fixture according to claim 12, wherein the angle  
2  $\alpha$  is  $20^\circ - 40^\circ$  at the radially outer end of the trailing slot wall surface.

17. (Previously presented) The fixture according to claim 13, wherein the angle  
2  $\alpha$  is  $20^\circ - 40^\circ$  at the radially outer end of the trailing slot wall surface.

18. (Previously presented) The fixture according to claim 14, wherein the angle  
2  $\alpha$  is  $20^\circ - 40^\circ$  at the radially outer end of the trailing slot wall surface.

19. (Previously presented) The fixture according to claim 11, wherein the angle  
2  $\alpha$  is  $27^\circ - 33^\circ$  at the radially outer end of the trailing slot wall surface.

20. (Previously presented) The fixture according to claim 12, wherein the angle  
2       $\alpha$  is  $27^\circ - 33^\circ$  at the radially outer end of the trailing slot wall surface.

21. (Cancelled)

22. (Previously presented) The fixture according to claim 12, wherein the slots  
2      are 3-10 in number.

23. (Currently amended) The fixture according to claim 11 ~~15~~, wherein the slots  
2      are 3-10 in number.

24. (Previously presented) The fixture according to claim 11, wherein the slots  
2      are 5-7 in number.

25. (Previously presented) The fixture according to claim 12, wherein the slots  
2      are 5-7 in number.

26. (Currently amended) The fixture according to claim 13 ~~15~~, wherein the slots  
2      are 5-7 in number.

27. (Previously presented) The fixture according to claim 11, wherein the cavity  
2      is circular in cross-section and widens conically in a direction toward said insertion end.

28. (Previously presented) The fixture according to claim 12, wherein the cavity  
2 is circular in cross-section and widens conically in a direction toward said insertion end.

29. (Previously presented) The fixture according to claim 13, wherein the cavity  
2 is circular in cross-section and widens conically in a direction toward said insertion end.

30. (Previously presented) The fixture according to claim 11, wherein the slot  
2 width at the radially outer end of said slot corresponds to 15-35% of the peripheral distance  
between the two slots on the outside of the fixture.

31. (Previously presented) The fixture according to claim 12, wherein the slot  
2 width at the radially outer end of said slot corresponds to 15-35% of the peripheral distance  
between the two slots on the outside of the fixture.

32. (Previously presented) The fixture according to claim 13, wherein the slot  
2 width at the radially outer end of said slot corresponds to 15-35% of the peripheral distance  
between the two slots on the outside of the fixture.

33. (Previously presented) The fixture according to claim 27, wherein the slot  
2 width at the radially outer end of said slot corresponds to 15-35% of the peripheral distance  
between the two slots on the outside of the fixture.

34. (Currently amended) The fixture according to claim 11, wherein that the  
2 fixture is made of titanium.

35. (Cancelled)

36. (Previously presented) The fixture according to claim 11, wherein the angle  
2  $\alpha$  is  $20^\circ - 40^\circ$  at the radially outer end of the trailing slot wall surface.

37. (New) A fixture shaped and configured to be screwed longitudinally into  
2 hollow or tubular bone tissue, said fixture comprising:  
4 a generally cylindrical anchoring portion formed with an insertion end and having an  
6 external screw thread wherein the ratio of the length of the anchoring portion to the diameter  
8 of the radially outermost portion of the external screw thread is greater than three, a cavity  
10 which opens out at said insertion end, and a plurality of through-penetrating slots extending  
12 from said insertion end, wherein each said slot connects the cavity with the outside of said  
14 anchoring portion and wherein each said slot is defined by a leading slot wall surface facing  
each said slot and a trailing slot wall surface facing each said slot, where said leading and  
trailing wall surfaces relate to the direction of rotation defined by said screw thread when  
screwing in the fixture, such that said leading slot wall surface is the one that is ahead of each  
said slot and said trailing slot wall surface is behind each said slot in said direction of  
rotation, wherein at least the radially outermost part of said trailing slot wall surface defines a  
cutting edge at an angle  $\alpha$  with the radial direction and slopes obliquely forwardly from

within and outwardly in said direction of rotation, whereby the cutting edge formed between  
16 said trailing slot wall surface and the outside of said anchoring portion define an acute angle.